

AMENDMENTS TO THE CLAIMS

1. (Currently amended) An arrangement for running a warehouse, in which objects are stored in a plurality of stacks in a storage area, comprising
  - a) a collecting device (~~101; 201; 501; 601~~), which can be moved as desired over the storage area, in particular by a portal robot,
  - b) an intermediate store (~~102; 202; 502a, 502b; 602~~) arranged on the collecting device (~~101; 201; 501; 601~~) to accommodate objects to be picked up from the storage area, it being possible for the intermediate store (~~102; 202; 502a, 502b; 602~~) to be filled successively from various stacks in separate pick-up steps, and
  - c) a gripping device (~~103; 203; 503a, 503b~~) arranged on the collecting device (~~101; 201; 501; 601~~) for lifting one or more objects from one of the stacks, it being possible for the gripping device (~~103; 203; 503a, 503b~~) to be moved vertically;characterized in that
  - d) the gripping device (~~103; 203; 503a, 503b~~) is substantially formed by two mutually opposite blades (~~104, 105; 204, 205; 504a, 504b, 505a, 505b; 604, 605~~).
2. (Currently amended) The arrangement as claimed in claim 1, characterized in that the collecting device (~~101; 201; 601~~) is divided into two mutually opposite halves which can be moved relative to each other.

3. (Currently amended) The arrangement as claimed in claim 1 or 2, characterized in that the intermediate store (~~102; 502a, 502b; 602~~) is substantially formed by two mutually opposite side beams (~~108, 109; 508, 509; 608, 609~~).
4. (Currently amended) The arrangement as claimed in claim 3, characterized in that the blades (~~104, 105; 504a, 504b, 505a, 505b; 604, 605~~) of the gripping device (~~103; 503a, 503b~~) are mounted in the side beams (~~108, 109; 508, 509; 608, 609~~) of the intermediate store (~~102; 502a, 502b; 602~~) such that they can be moved vertically.
5. (Currently amended) The arrangement as claimed in claim 4, characterized in that vertical planes which are defined by the blades (~~204, 205~~) and by the side beams (~~208, 209~~) of the intermediate store enclose a space with a substantially rectangular cross section.
6. (Currently amended) The arrangement as claimed in ~~one of claims 1 to 5~~ claim 1, characterized in that the blades (~~104, 105; 204, 205; 504a, 504b, 505a, 505b~~) comprise on an inner side holding elements (~~119; 219; 519~~) for holding the objects and/or securing elements (~~118; 518~~) for securing the objects against horizontal movements relative to the gripping device and/or tilting.

7. (Currently amended) The arrangement as claimed in ~~one of claims 1 to 7~~ claim 1, characterized in that the intermediate store (~~102; 202; 502a, 502b; 602~~) is arranged in a fixed location above the storage area as the objects are picked up.
8. (Currently amended) The arrangement as claimed in ~~one of claims 1 to 7~~ claim 1, characterized in that the intermediate store (~~102~~) comprises at its upper end a vertically movable element (~~131~~) which exerts a force downward on the topmost stored object in order to stabilize the stored stack.
9. (Currently amended) The arrangement as claimed in ~~one of claims 1 to 8~~ claim 1, characterized in that the intermediate store (~~102; 202~~) comprises holding elements (~~130; 237~~) for holding the stored objects and/or securing elements (~~120~~) for securing the objects against horizontal movements relative to the intermediate store (~~102; 202~~) and/or tilting.
10. (Currently amended) The arrangement as claimed in ~~one of claims 1 to 9~~ claim 1, characterized in that the intermediate store (~~102; 502a, 502b~~) comprises, preferably at its lower end, a calibration part (~~110; 510~~) which corrects an orientation of the objects as they are inserted into the intermediate store (~~102; 502a, 502b~~).
11. (Currently amended) The arrangement as claimed in claim 10, characterized in that the calibration part (~~110~~) is formed by two C-shaped adjusting elements (~~111, 112~~).

12. (Currently amended) The arrangement as claimed in ~~one of claims 1 to 11~~ claim 1, characterized in that a collecting device (501) comprises a plurality of intermediate stores (~~502a, 502b~~).
13. (Currently amended) The arrangement, in particular as claimed in ~~one of claims 1 to 12~~ claim 1, for running a warehouse, in which objects are stored in a plurality of stacks in a storage area, comprising
- a) a collecting device (~~601~~), which can be moved as desired over the storage area, in particular by a portal robot,
  - b) an intermediate store (~~602~~) arranged on the collecting device (~~601~~) to accommodate objects to be picked up from the storage area, it being possible for the intermediate store (~~602~~) to be filled successively from various stacks in separate pickup steps, and
  - c) a gripping device (~~604, 605~~) arranged on the collecting device (~~601~~) for lifting one or more objects from one of the stacks, it being possible for the gripping device (~~604, 605~~) to be moved vertically;
- characterized by
- d) a storage unit (~~649.1...649.6~~), which can be moved independently of the collecting device (~~601~~) and which is constructed in such a way that objects accommodated in the intermediate store (~~602~~) of the collecting device (~~601~~) can be transferred directly into the storage unit (~~649.1...649.6~~).

14. (Currently amended) The arrangement as claimed in claim 13, characterized in that the storage unit ~~(649.1...649.6)~~ is substantially C-shaped with a base part ~~(650)~~ running vertically and arranged at the rear, and two holding parts ~~(651, 652)~~ held on the base part ~~(650)~~, arranged centrally and projecting forward, between which the objects can be picked up.
15. (Currently amended) The arrangement as claimed in claim 13 or 14, characterized in that a plurality of storage units ~~(649.1...649.6)~~ are preferably fixedly arranged on a portal bridge ~~(647)~~, and in that the collecting device ~~(601)~~ is arranged such that it can be moved on a further portal bridge ~~(641)~~, the storage units ~~(649.1...649.6)~~ and the collecting device ~~(601)~~ being located opposite each other.
16. (Currently amended) A method for operating a warehouse, in which objects are stored in a plurality of stacks in a storage area, in which
- a) a collecting device ~~(101; 201; 401; 501; 601)~~ is moved over the storage area to any desired stack having objects to be picked up;
  - b) a gripping device ~~(103; 203; 403; 503a, 503b; 604, 605)~~ arranged on the collecting device ~~(101; 201; 401; 501; 601)~~ for picking up a stack part from one or more objects of the stack is moved vertically downward;

- c) the stack part is gripped by two mutually opposite blades (~~104, 105; 204, 205; 404, 405; 604, 605~~) of the gripping device (~~103; 203; 403; 503a, 503b~~);
  - d) the gripping device (~~103; 203; 403; 503a, 503b~~) is moved vertically upward, so that an intermediate store (~~102; 202; 402; 502a, 502b; 602~~) arranged on the collecting device (~~101; 201; 401; 501; 601~~) accommodates the objects picked up from the storage area; and
  - e) the intermediate store (~~102; 202; 402; 502a, 502b; 602~~) is filled successively from various stacks in further pick-up steps.
17. (Currently amended) The method as claimed in claim 16, characterized in that, in order to pick up the stack part, the two mutually opposite blades (~~104, 105; 204, 205; 404, 405; 504a, 504b, 505a, 505b; 604, 605~~) are extended out of the collecting device (~~101; 201; 401; 501; 601~~), the intermediate store (~~102; 202; 402; 502a, 502b; 602~~) remaining in a fixed location.
18. (Currently amended) The method as claimed in claim 16 or 17, characterized in that, during the movement of the collecting device (~~101~~), the objects in the intermediate store (~~102~~) are secured against horizontal movements relative to the collecting device (~~101~~) and /or tilting by securing elements (~~120~~) of the intermediate store (~~102~~).

19. (Currently amended) The method as claimed in ~~one of claims 16 to 18~~ claim 16, characterized in that the objects gripped by the gripping device (~~103; 503a, 503b~~), as they move upward, are secured against horizontal movements relative to the gripping device (~~103; 503, 503b~~) and/or tilting by securing elements (~~118; 518~~) of the gripping device (~~103; 503a, 503b~~).
20. (Currently amended) The method as claimed in ~~one of claims 16 to 18~~ claim 16, characterized in that, in order to grip the stack part, two mutually opposite halves of a collecting device are moved toward each other until the blades hold the stack part with a form or force fit.
21. (Currently amended) The method, in particular as claimed in ~~one of claims 16 to 18~~ claim 16, for running in a warehouse, in which objects are stored in a plurality of stacks in a storage area, in which
- a) a collecting device (~~601~~) is moved over the storage area to any desired stack having objects to be picked up;
  - b) a stack part of one or more objects from the stack is accommodated in an intermediate store (~~602~~) of the collecting device (~~601~~);

c) the intermediate store ~~(602)~~ is filled successively from various stacks in further pick-up steps; and

d) the objects accommodated in the intermediate store ~~(602)~~ are transferred to a storage unit ~~(649.1...649.6)~~ which can be moved independently of the collecting device ~~(601)~~.